STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY

INTER-OFFICE CORRESPONDENCE

DATE: January 22, 1981

MEMO TO: File - Commonwealth Edison - Tech Center
PCB contaminated discharge

FROM: Larry C. Lai

SUBJECT: Commonwealth Edison - Tech Center
PCB contaminated discharge

On the above mentioned date a conference was held in the offices of Lincoln, Ishan & Beale to review progress made by Edison, in attempts to deal with PCB contamination of their stormwater discharge. Persons present at the meeting were:

Steve Winship, Dana Urbikas - Commonwealth Edison
Susan Proctor - Lincoln, Ishan & Beale
Ted Denning, Phil Van Ness, Larry Lai - IEPA
John Van Ranken - A.G.

Since the last meeting with Edison the following events transpired:

1/80 - 3/80	Edison personnel consulted their engineering staff with regard to chemical feed and sampling equipment.
4/80	Nalco Chemicals conducted a study on treatability of the wastestream.
5/80	Nalco report and installation of a chemical feed system.
10/80	Ordered sampling equipment.
1/21/81	Sampling equipment on line.

Winship presented data on discharge analysis over the last year - a copy is attached. He guessed that a chemical feed system could reduce discharge of TSS to the 1 - 5 mg/l range
FOG to the 1 - 5 mg/l range

A period of about nine months was deemed necessary to evaluate the system under a variety of flow conditions and to allow for optimization of treatment.

Winship agreed to:

1. Supply IEPA with monthly PCB analysis data indicating flows.
2. Supply IEPA with a copy of the Nalco report (5/80).
3. Coordinate an on site inspection to view chemical feed and sampling operations.

It was agreed that within the next 2 months a meeting would take place with USEPA representation as well as persons from Edisons engineering staff.

LCL:wn

cc - DWPC/FOS/RU
- CAS

TECH CENTER

O.A.D. ANALYSES RESULTS

Oil/Water Separator Discharges and Background
During Periods of Flow

		Parameters					
Date	Location	pH	TSS, mg/l	O&G, mg/l	PCB, ug/l	PCB in oil, mg/l	PCB in sediment, ug/g
11-26-79	North	7.4	104.0	9.0	59.0	-	-
	South	7.3	23.0	7.0	7.4	-	-
1-11-80	South	7.6	73.0	12.0	15.0	283.0	141.0
1-16-80	North	7.5	22.0	2.0	3.0	-	205.0
	South	7.8	139.0	4.0	23.0	272.0	265.0
2-20-80	South	7.6	138.0	3.0	18.0	387.0	-
2-21-80	South	7.4	333.0	7.0	44.0	376.0	253.0
2-22-80	South	7.2	204.0	12.0	31.0	418.0	-
3- 4-80	North	7.8	< 1.0	10.0	4.0	-	311.0
	South	7.4	< 1.0	21.0	< 3.0	386.0	-
3- 5-80	South	7.6	43.0	3.0	13.0	381.0	-
4- 8-80	South	7.3	56.0	12.0	-	-	-
4-29-80	South	7.6	36.0	7.0	9.0	382.0	-
4-30-80	North*	-	-	4.0	-	-	-
5-29-80	North*	7.3	144.0	8.0	54.0	-	288.0
	South	7.4	117.0	6.0	15.0	357.0	-
6-17-80	North*	-	-	-	29.6	-	-
	South	-	-	-	3.0	-	-
6-27-80	North*	7.2	2.0	1.0	1.6	-	-
	South	7.9	5.0	5.0	4.7	-	-
7-24-80	North*	6.9	22.0	3.0	12.5	-	230.0
	South	7.7	1.0	6.0	4.0	107.0	-
8- 7-80	North	7.4	33.0	2.0	12.7	-	276.0
	South	7.5	3.0	2.0	1.6	407.0	-
9-26-80	North*	7.5	39.0	< 1.0	22.1	-	-
	South	7.6	15.0	2.0	4.2	-	-

		Parameters					
Date	Location	pH	TSS, mg/l	O&G, mg/l	PCB, ug/l	PCB in oil, mg/l	PCB in sediment, ug/g
10-31-80	North*	7.6	2.0	<1.0	1.6	-	-
	South*	7.6	5.0	<1.0	1.5	-	-
11-21-80	North*	7.8	1.0	<1.0	0.6	-	-
	South*	7.8	1.0	<1.0	1.3	-	-
12- 5-80	North*	7.3	45.0	2.0	40.8	-	-
	South*	7.2	13.0	3.0	3.1	-	-

*No flow at time of sampling

- No analysis.